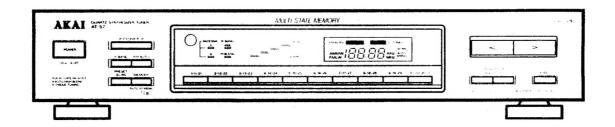
AKAI SERVICE MANUAL



QUARTZ SYNTHESIZER TUNER

MODEL AT-57/L

SPECIFICATIONS

[FM Tuner section]	
Tuning frequency range 87.5 MHz to 108.0 MHz	IF rejection 60 dB
Usable sensitivity11.2 dBf	S/N ratio 40 dB
Quieting sensitivity	T.H.D 1.8 %
(S/N=50 dB)	[LW Tuner section (For AT-57L only)]
(Stereo)	Tuning frequency range 144 kHz to 351 kHz
Capture ratio 1.5 dB	Usable sensitivity 800 μV/m
Selectivity	(Loop antenna)
Narrow 80 dB	Selectivity 40 dB
Wide65 dB	Image rejection 40 dB
Image rejection 90 dB	IF rejection 60 dB
IF rejection ratio 85 dB	S/N ratio 35 dB
Spurious rejection 100 dB	T.H.D 1.8 %
AM suppression60 dB	[GENERAL]
S/N ratio (IHF) 80 dB (Mono) / 70 dB (Stereo)	Output level
T.H.D (1 KHz)	FM 930 mV (100 % Mod)
Narrow 0.15 % (Mono) / 0.2 %	AM (MW/LW for AT-57L) 330 mV (30 % Mod)
(Stereo)	Power requirements AC 220V-230V, 50 Hz for
Wide	Europe except UK
(Stereo)	AC 240V, 50 Hz for UK
Stereo separation (1 KHz)	Power consumption 8 W
Narrow 42 dB	Dimensions 425 (W) X 96 (H) X 335 (D)
Wide45 dB	Weight 36 kg
Frequency response 30 Hz to 15 kHz ± 1.0 dB	
Channel selectivity 60 dB	Standard accessories
[AM (MW) Tuner section]	FM di-pole antennax1
Tuning frequency range 531 kHz to 1,602 kHz	AM loop antennax1
Usable sensitivity 400 μV/m	Connection cordx1
(Loop antenna)	FM antenna plugx1
Selectivity 40 dB	Operator's manual x1
Image rejection 40 dB	

^{*} For improvement purposes, specifications and design are subject to change without notice.

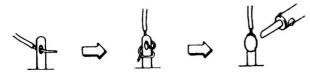
PRECAUTIONS DURING SERVICING

- 1. Parts indentified by the ! (*) symbol are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers(Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, Noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects(screws, solder, droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts areacceptably insulated from the supply circuit.

Theleakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphonejacks, signal-input/output connectors, etc.) and the earthground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rmsAC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

PRECAUTIONS FOR LITHIUM BATTERY

The lithium battery may explode when heated excessively. [OBSERVE THE FOLLOWING WHEN REPLACING]

- · Replace with the same make and type only.
- · Use soldering iron in "recommended way" only.
- · Place battery in correct polarity.
- · Do not short the terminals.
- · Do not charge battery.
- · Do not dispose of battery in fire.







[RECOMMENDED WAY]

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as accumulators (rechargeable batteries), mini-batterie (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can thrown out with the household waste.

★ INFORMATION

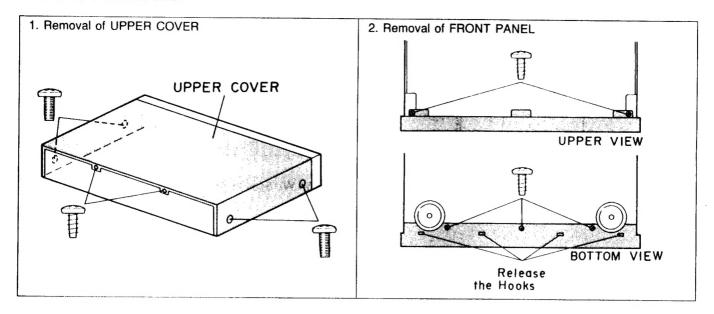
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations	
B	UK	
E	Europe (except UK)	
S	Australia	
[V]	Germany	
Ū	Universal Area	
Y*	Custom version	

I. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.



II. PRINCIPAL PARTS LOCATION

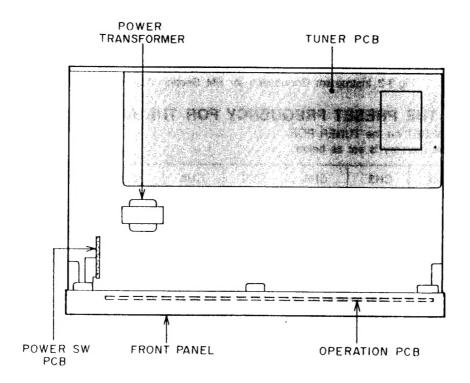


Fig.2-1 Top view

3-1.INSTRUMENT CONNECTIONS

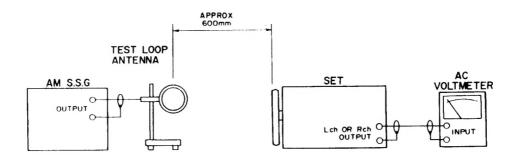


Fig.3-1 Instrument Connection for AM (MW,LW) Section Adjustment

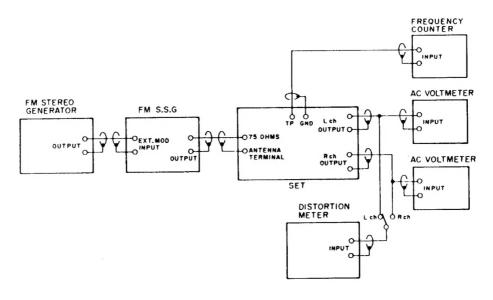


Fig.3-2 Instrument Connection for FM Section Adjustment

CH₅

CH₆

198kHz

CH10

351kHz

CH9

351kHz

CH8

297kHz

CH7

297kHz

3-2.HOW TO CALL THE PRESET FREQUENCY FOR THE ADJUSTMENT

CH4

162kHz

Short the TEST POINT of RESET on the TUNER PCB. The internal frequency preset memory is set as below.

CH₂

CH3

CH₁

144kHz

144kHz

162kHz

							1			
AT-57	FM	FM	FM	FM						
9 kHz/ V	87.5MHz	88.0MHz	90.0MHz	94.0MHz	96.0MHz	98.0MHz	100.0MHz	102.0MHz	106.0MHz	108.0MHz
AT-57L	FM	FM	FM	FM						
9 kHz/E,B	87.5MHz	88.0MHz	90.0MHz	94.0MHz	96.0MHz	98.0MHz	100.0MHz	102.0MHz	106.0MHz	108.0MHz
						T	1			
	CH11	CH12	CH13	CH14	CH15	CH16	CH17	CH18	CH19	CH20
	АМ	AM	AM	AM	AM	AM	AM	AM	АМ	АМ
	531kHz	531kHz	603kHz	603kHz	999kHz	999kHz	1404kHz	1404kHz	1602kHz	1602kHz
	MW	MW	MW	MW						
	531kHz	531kHz	603kHz	603kHz	999kHz	999kHz	1404kHz	1404kHz	1602kHz	1602kHz
					1	1	1			
	CH21	CH22	CH23	CH24	CH25	CH26	CH27	CH28	CH29	CH30
	FM	FM	FM	FM						
	87.5MHz		90.0MHz	94.0MHz	96.0MHz	98.0MHz			106.0MHz	108.0MHz
	LW	LW	LW	LW						

198kHz

ATTENTION

- 1. When placing an order to specific extent to the Partition House the matter
- Otherwise, the non-collivery crosse part or the collinity cold (2001) and the 2. Please make sure that Part No. is correct when ordering.
- If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly import-
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1 2 3 4 5	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895	HEAD BASE BLOCK HEAD R/P PR4-8FU C PAN20×03STL CMT BID20×08STL CMT SP CS ANGLE ADJUST
A	*	

SP (Service Parts) Classification

This number corresponds with the individ ual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

Part No.

VO.		
C1 C2 C1A C1B C1C X1	[A]: AAL (Europe) [V]: VDE (Germany)
	SP (S	Service Parts) Classification
	with	e reference symbols correspond component symbols in the matic Diagrams.

Description

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

△ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	*BT-729938J	TRANS POW AT-56 (B)
2	*BT-729935J	TRANS POW AT-56 (E,V)
3	ED-360236	D LED GL-5EG8 GREEN
4	ED-360318	D SILICON H MA700
5	ED-307572	D SILICON H 1SS131
6	ED-729939J	D SILICON H 1SS135T-72
7	*ED-729940J	D SILICON 1A2-E
8	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
9	ED-384516J	D ZENER H 05AZ24-R
10	ED-384567J	D ZENER H 05AZ6.8-Y
11	EE-732796J	FRONT END FM-FTZ AT-57
12	*EF-365246	FUSE BET T 250V 125MA
13	*EF-358974	FUSE BET T 250V 630MA
14	EH-344434	FILTER CE BFU450C4N 0.450MHZ
15	EH-338338	FILTER CE SFE10.7MS3GK-A
	EH-729952J	FILTER CE 10.7
16	EH-729945J	FILTER LP
17	El-715106	IC BA6154
18	EI-723340J	IC LA1266A
19	El-729961J	IC LA3401
20		IC LM7001
21	EI-361622	IC MC7805AC
22	*EI-728465K	IC NJM7812A
23	*EI-386309J	IC TA7060AP
24	EI-704824	IC TMP47C410N 1394
25	EI-732797J	OSC CE CSB456F11 0.456MHZ
26	El-349970	OSC CE CST4.00MGW 4MHZ
27	EI-382875J	OSC X'TAL HC-18/U 7.200MHZ
28	El-344422	IND FL FV361 CHARACTER
29	EM-390703J	R FUSE H ERD2FC 1/4W 10R0G
30	*ER-328278	
31	*ER-303840	R OMF H FS 1W 470J
32	*ER-341331	R OMF H S15 FS 1W 181J
33	*ES-729964J	SW PUSH
		[POWER SW]
34	ES-729963J	SW TACT 01C1PE
		[ANT A/B]
35	ET-390397J	DETECTOR GP1U501
36	ET-370310	TR DTC144TS
37	ET-353734	TR FET 2SJ103 GR,BL
38	ET-363326	TR FET 2SK161 GR
39	ET-359827	TR FET 2SK246 BL
40	ET-389803J	TR 2SA933S R,S
41	ET-400218J	TR 2SC1740S R,S
42	ET-702699	TR 2SC1923 R
43	ET-338565	TR 2SD1302 R,S
44	EZ-729962J	BATTERY CR2032THA

2. P.C BOARD

Ref.No.	Part No.	Description
1	BA-732794J	PC (#) TUNER BLK AT-57 (V)
2	BA-732795J	PC (#) TUNER BLK AT-57L (E) [E,B]

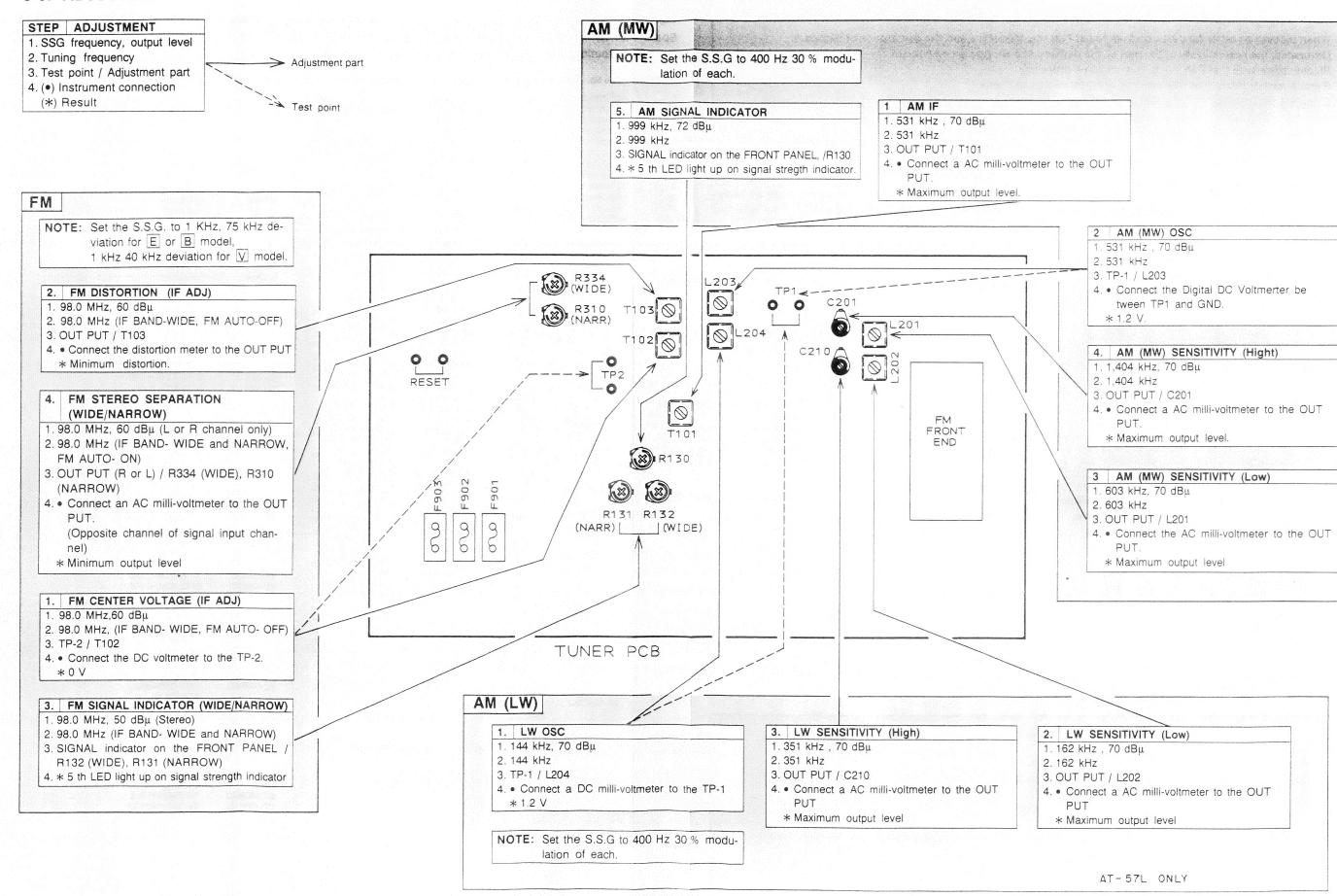
PC (#) TUNER BLK CONSISTS OF FOLLOWING P.C BOARD.

- . TUNER P.C BOARD
- CONTROL P.C BOARD
- POWER SW P.C BOARD

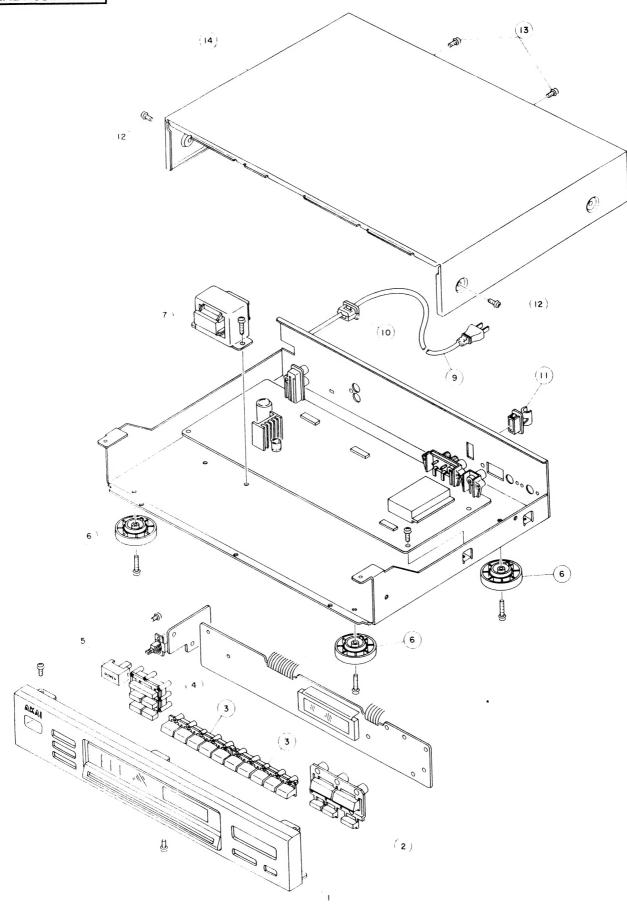
3. TUNER P.C BOARD

Ref.No.	Part No.	Description
C201	EC-729958J	C S-FIX 10P
C210	EC-729959J	C S-FIX 10F C S-FIX 30P [AT-57L]
D001 D002 D003 D004 D005 D006 D101 D102 D103 D104 D105 D106 D107 D108 D109 D110 D111 D112 D201 D202 D203	ED-729939J ED-729939J ED-729939J ED-729939J ED-729939J ED-729939J ED-307572 ED-307572 ED-307572 ED-307572 ED-360318 ED-360318 ED-360318 ED-360318 ED-37572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-349460-A ED-349460-A	D SILICÓN H 1SS135T-72 D SILICON H 1SS131 D SILICON H MA700 D SILICON H MSS131 D SILICON H MSS131 D SILICON H MSS131 D SILICON H 1SS131 D VARACTOR SVC321SPA ABCD DBL D VARACTOR SVC321SPA ABCD DBL D VARACTOR SVC321SPA ABCD DBL
D204	ED-349460-A	[AT-57L] D VARACTOR SVC321SPA ABCD DBL
D205 D301 D302 D303 D304 D305 D306 D430	ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572	[AT-57L] D SILICON H 1SS131
D431	ED-307572	D SILICON H 1SS131
D432	ED-307572	[AT-57L] D SILICON H 1SS131 [AT-57L]
D901 D902 D903 D904 D905 D906 D907 D908 D909 D912 D913 D914 D915 D916 F901 F902 F903 J001	*ED-729940J *ED-729940J *ED-729940J *ED-729940J *ED-729940J *ED-384516J ED-384567J ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 ED-307572 *ED-729940J ED-307572 *ED-307572 *ED-729940J *EF-358974 *EF-358974	D SILICÓN 1A2-E D ZENER H 05AZ24-R D ZENER H 05AZ6.8-Y D SILICÓN H 1SS131 FUSE BET T 250V 630MA FUSE BET T 250V 630MA FUSE BET T 250V 125MA ANT TERMINAL 1P [FM ANT A]
J002	EJ-729942J	ANT TERMINAL [FM ANT B]
J301	EJ-729943J	PIN J US2P [OUTPUT]
L201 L202	EO-729954J EO-729955J	COIL ANT MW COIL ANT LW [AT-57L]
L203 L204	EO-729956J EO-729957J	COIL RT72-5503 COIL RT72-5504 [AT-57L]
Q001 Q002 Q003 Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q108	ET-389803J ET-400218J ET-370310 EI-704824 EI-704824 ET-702699 EI-723340J ET-389803J ET-400218J ET-370310 ET-702699	TR 25A933S R.S TR 25C1740S R.S TR DTC144TS IC TA7060AP IC TA7060AP TR 25C1923 R IC LA1266A TR 25A933S R.S TR 25C1740S R.S TR DTC144TS TR 25C1923 R

3-3. ADJUSTMENT



FINAL ASSEMBLY



Ref.No.	Part No.	Description
Q109	ET-363326	TR FET 2SK161 GR
Q110	ET-370310	TR DTC144TS
Q111	ET-400218J	TR 2SC1740S R,S
Q112	ET-370310	TR DTC144TS
Q201	ET-400218J	TR 2SC1740S R,S
	21 1002100	[AT-57L]
Q202	ET-400218J	TR 2SC1740S R,S [AT-57L]
Q203	ET-400218J	TR 2SC1740S R,S [AT-57L]
Q204	ET-400218J	TR 2SC1740S R,S [AT-57L]
Q301	EI-729961J	IC LA3401
Q302	ET-370310	TR DTC144TS
Q303	ET-400218J	TR 2SC1740S R,S
Q304	ET-353734	TR FET 2SJ103 GR,BL
Q305	ET-400218J	TR 2SC1740S R,S
Q306	ET-400218J	TR 2SC1740S R,S
Q307	ET-338565	TR 2SD1302 R,S
Q308	ET-338565	TR 2SD1302 R,S
Q411	ET-359827	TR FET 2SK246 BL
Q412	ET-400218J	TR 2SC1740S R.S
Q413	EI-361622	IC LM7001
Q414	ET-400218J	TR 2SC1740S R,S
Q415	ET-389803J	TR 2SA933S R.S
Q416	ET-400218J	TR 2SC1740S R,S
Q417	ET-389803J	[AT-57L] TR 2SA933S R,S
0001	*FI 000000 I	[AT-57L]
Q901	*EI-386309J	IC NJM7812A
Q902	*EI-728465K	IC MC7805AC
Q903	ET-370310	TR DTC144TS
Q904	ET-389803J	TR 2SA933S R.S
Q905 Q906	ET-400218J ET-370310	TR 2SC1740S R,S TR DTC144TS
Q907	ET-389803J	TR 2SA933S R,S
R009	*ER-303840	R OMF H FS 1W 470J
R123	*ER-303840	R OMF H FS 1W 470J
R130	EV-358829	R S-FIX H RH0615C 0.10W 223
R131	EV-356582	R S-FIX H RH0615C 0.10W 223
R132	EV-356582	R S-FIX H RH0615C 0.10W 473
R140	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
R302	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
R310	EV-357619	R S-FIX H RH0615C 0.10W 104
R334	EV-357619	R S-FIX H RH0615C 0.10W 104
R904	*ER-341331	R OMF H S15 FS 1W 181J
T101	EO-729949J	COIL IFT AM-M-CE
T102	EO-729947J	COIL IFT FM-T2
T103	EO-729946J	COIL IFT FM-T1
Z001	EE-732796J	FRONT END FM-FTZ AT-57
Z101	EH-338338	FILTER CE SFE10.7MS3GK-A
Z102	EH-338338	FILTER CE SFE10.7MS3GK-A
Z103	EH-729952J	FILTER CE 10.7
Z104	EH-729952J	FILTER CE 10.7
Z105	EH-344434	FILTER CE BFU450C4N 0.450MHZ
Z106	EO-729948J	COIL AM
Z301	EH-729946J	FILTER LP
Z302	EH-729945J	FILTER LP
Z303	EI-349970	OSC CE CSB456F11 0.456MHZ
Z402	EI-344422	OSC X'TAL HC-18/U 7.200MHZ
	2. J	

4. CONTROL P.C BOARD

Ref.No.	Part No.	Description
B401	EZ-729962J	BATTERY CR2032THA
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D403	ED-307572	D SILICON H 1SS131
D404	ED-307572	D SILICON H 1SS131
D405	ED-307572	D SILICON H 1SS131
D406	ED-307572	D SILICON H 1SS131
D414	ED-307572	D SILICON H 1SS131
D416	ED-307572	[AT-57] D SILICON H 1SS131
D417	ED-307572	D SILICON H 188131
D418	ED-307572	D SILICON H 188131
D419	ED-360236	D LED GL-5EG8 GREEN
D420	ED-360236	D LED GL-5EG8 GREEN
D421	ED-360236	D LED GL-5EG8 GREEN
D422	ED-360236	D LED GL-5EG8 GREEN
D423	ED-360236	D LED GL-5EG8 GREEN
D424	ED-360236	D LED GL-5EG8 GREEN
D425	ED-360236	D LED GL-5EG8 GREEN
D426	ED-360236	D LED GL-5EG8 GREEN
D427	ED-360236	D LED GL-5EG8 GREEN
F401	EM-390703J	IND FL FV361 CHARACTER
Q401	EI-732797J	IC TMP47C410N 1394
Q402	ET-370310	TR DTC144TS
Q403 Q404	ET-370310	TR DTC144TS
Q404 Q405	ET-370310 ET-370310	TR DTC144TS
Q405 Q418	EI-715106	TR DTC144TS IC BA6154
Q422	ET-390397J	DETECTOR GP1U501
S401	ES-729963J	SW TACT 01C1PE
0,0,	20 /200000	[ANT A/B]
S402	ES-729963J	SW TACT 01C1PE
		[AUTO/MANU]
S403	ES-729963J	SW TACT 01C1PE
		[PRESET]
S404	ES-729963J	SW TACT 01C1PE
0.405	F0 700000 I	[9/19/29]
S405	ES-729963J	SW TACT 01C1PE
S406	ES-729963J	[0/10/20/30] SW TACT 01C1PE
0400	20 7233000	[DIRECT]
S407	ES-729963J	SW TACT 01C1PE
	20 . 200000	[TUNING UP]
S408	ES-729963J	SW TACT 01C1PE
		[TUNING DOWN]
S409	ES-729963J	SW TACT 01C1PE
0.440	E0 700000 I	[BAND]
S410	ES-729963J	SW TACT 01C1PE [FM AUTO]
S411	ES-729963J	SW TACT 01C1PE
		[MEMO]
S412	ES-729963J	SW TACT 01C1PE
0440	FC 7000001	[IF BAND]
S413	ES-729963J	SW TACT 01C1PE [5/15/25]
S414	ES-729963J	SW TACT 01C1PE
		[6/16/26]
S415	ES-729963J	SW TACT 01C1PE
		[7/17/27]
S416	ES-729963J	SW TACT 01C1PE
C/117	EC 7200621	[8/18/28]
S417	ES-729963J	SW.TACT 01C1PE [1/11/21]
S418	ES-729963J	SW TACT 01C1PE
55	20 , 200000	[2/12/22]
S419	ES-729963J	SW TACT 01C1PE
		[3/13/23]
S420	ES-729963J	SW TACT 01C1PE
7404	E1 000075 :	[4/14/24]
Z401	EI-382875J	OSC CE CST4.00MGW 4MHZ

5. POWER SW P.C BOARD

Ref.No.	Part No.	Description
S901	*ES-729964J	SW PUSH [POWER SW]

6. FINAL ASSEMBLY

Ref.No.	Part No.	Description
1-B	BD-732792J	PANEL FRONT BLK AT-57B
1-G	BD-732793J	PANEL FRONT BLK AT-57G
2-B	SK-731762J	KNOB TUNING (B)
2-G	SK-729971J	KNOB TUNING (G)
3-B	SK-731763J	KNOB PRESET (B)
3-G	SK-729972J	KNOB PRESET (G)
4-B	SK-731761J	KNOB ANT (B)
4-G	SK-729970J	KNOB ANT (G)
5-B	SK-373236B	KNOB POWER-B
5-G	SK-373236A	KNOB POWER-G
6	SA-379375	FOOT (N)
7A	*BT-729935J	TRANS POW AT-56 (E,V)
7B	*BT-729938J	TRANS POW AT-56 (B)
9A	*EW-347897	AC CORD 2 CORES VM0364,LCFL EV [E,V]
9B	*EW-346249	AC CORD 2 CORES LCFL2X0.75 B
10	*EZ-371605	BUSH CORD 2271
11	SZ-731764J	HOLDER ANT
12	ZS-322580	ST BID40X08STL BNI
13	ZS-308846	T2BR30X08STL BZN PROJECTION
14-B	SP-368689B	COVER UPPER-B
14-G	SP-368689A	COVER UPPER-G

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

7. ACCESSARY

Ref.No.	Part No.	Description
1	EE-729968J	ANT LOOP 3110
2	FF-729969.I	ANT FM

MEMO

ABBREVIATIONS (TUNER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	мемо	MEMOry
AGC	Auto Gain Control	MI-COM	Micro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	osc	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD	FLuorescent Display	Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
Н	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	sw	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	vco	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

AKAI

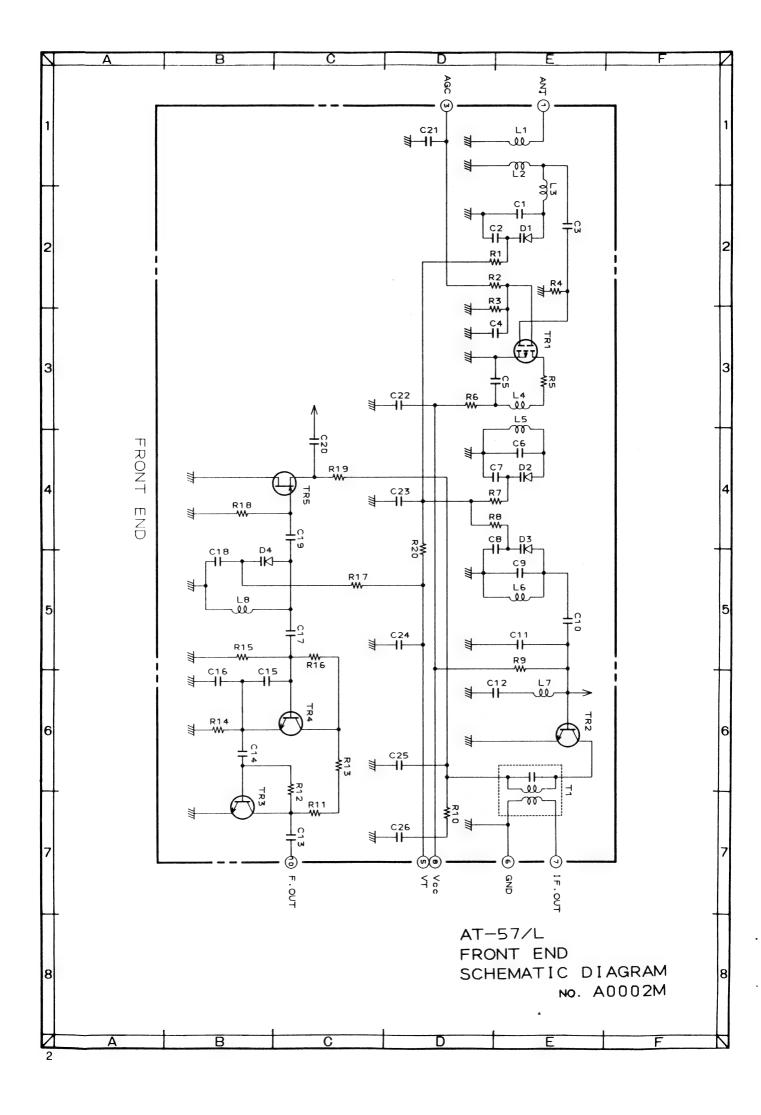
MODEL AT-57/L

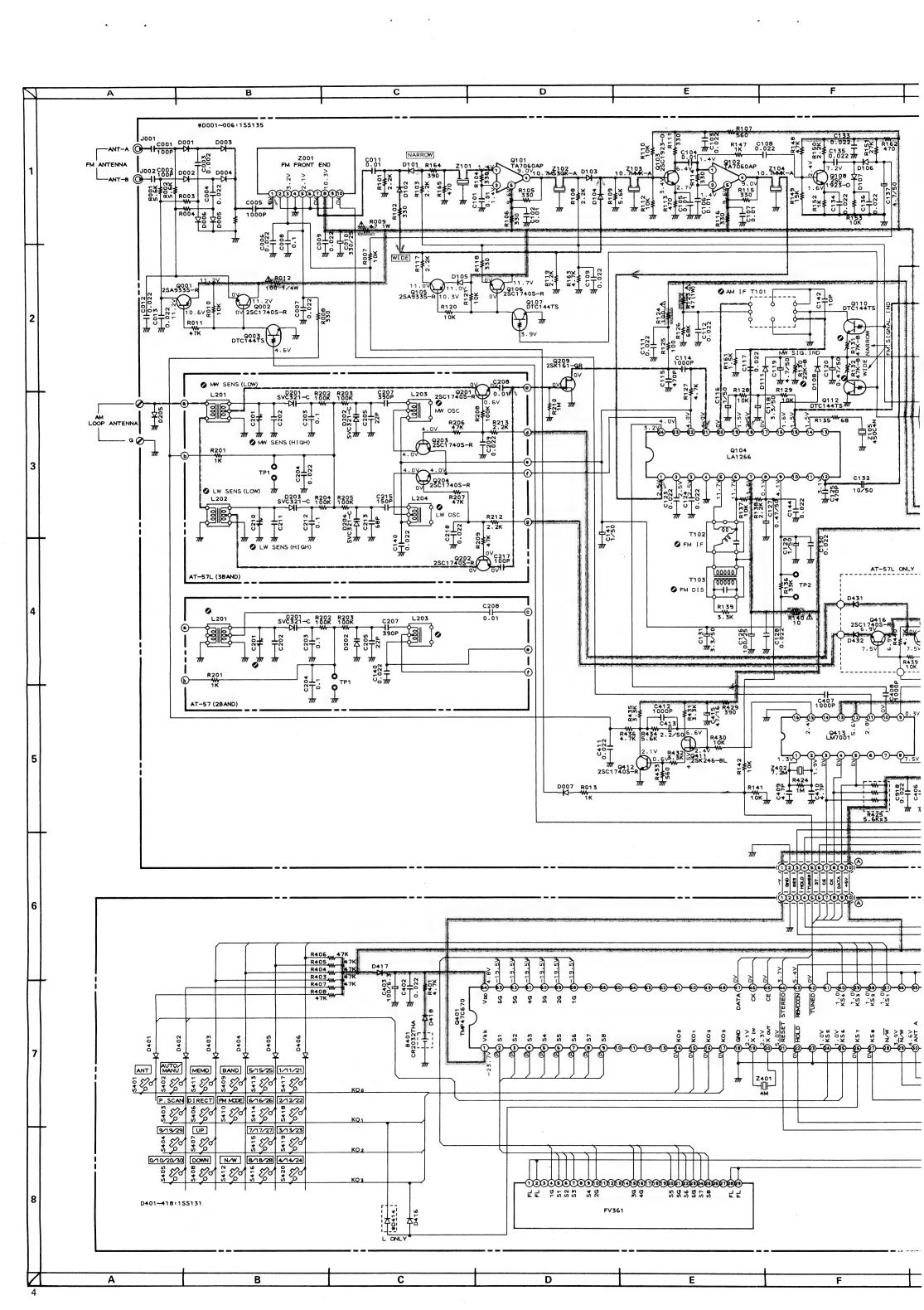
SCHEMATIC DIAGRAMS AND PC BOARDS

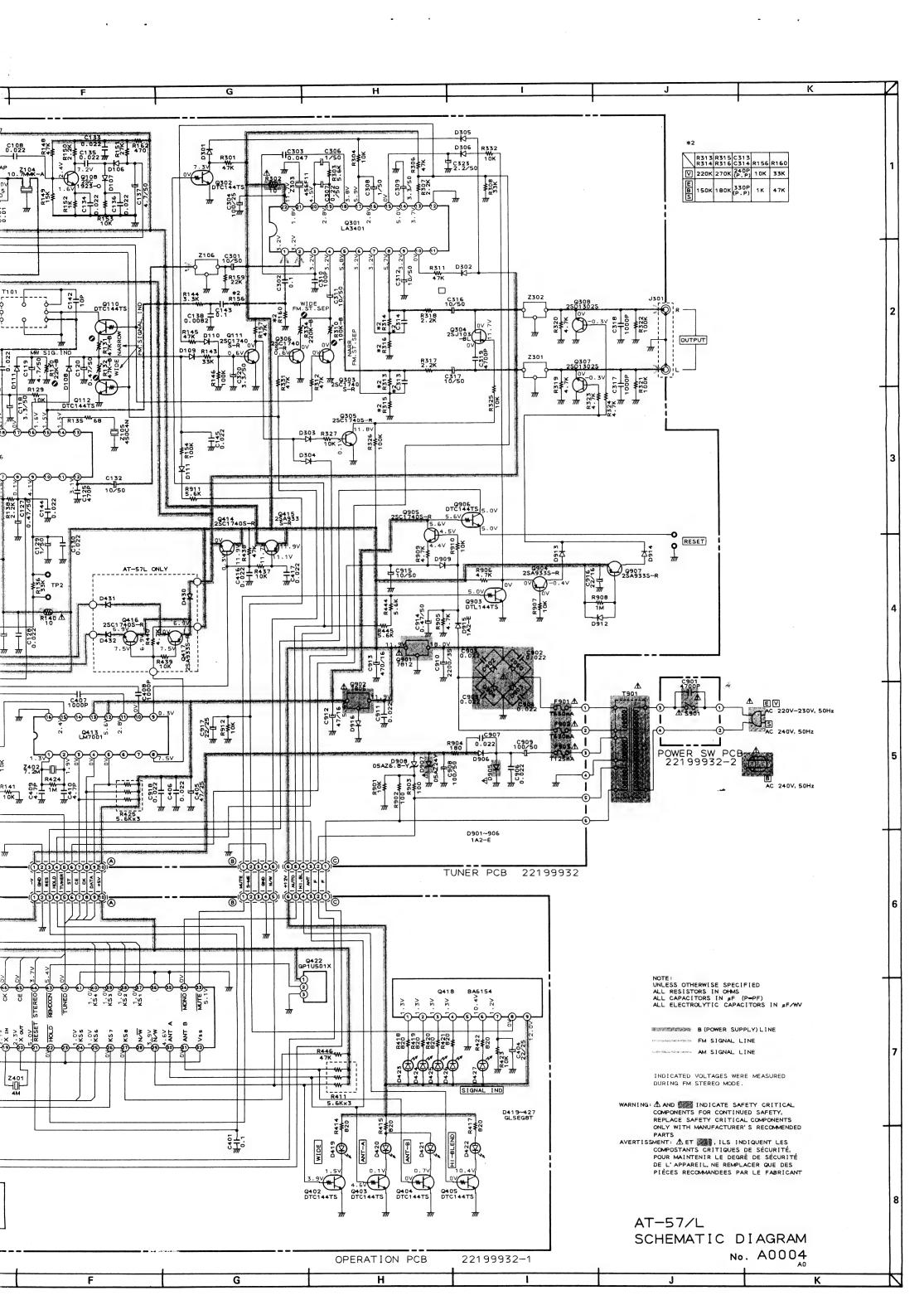
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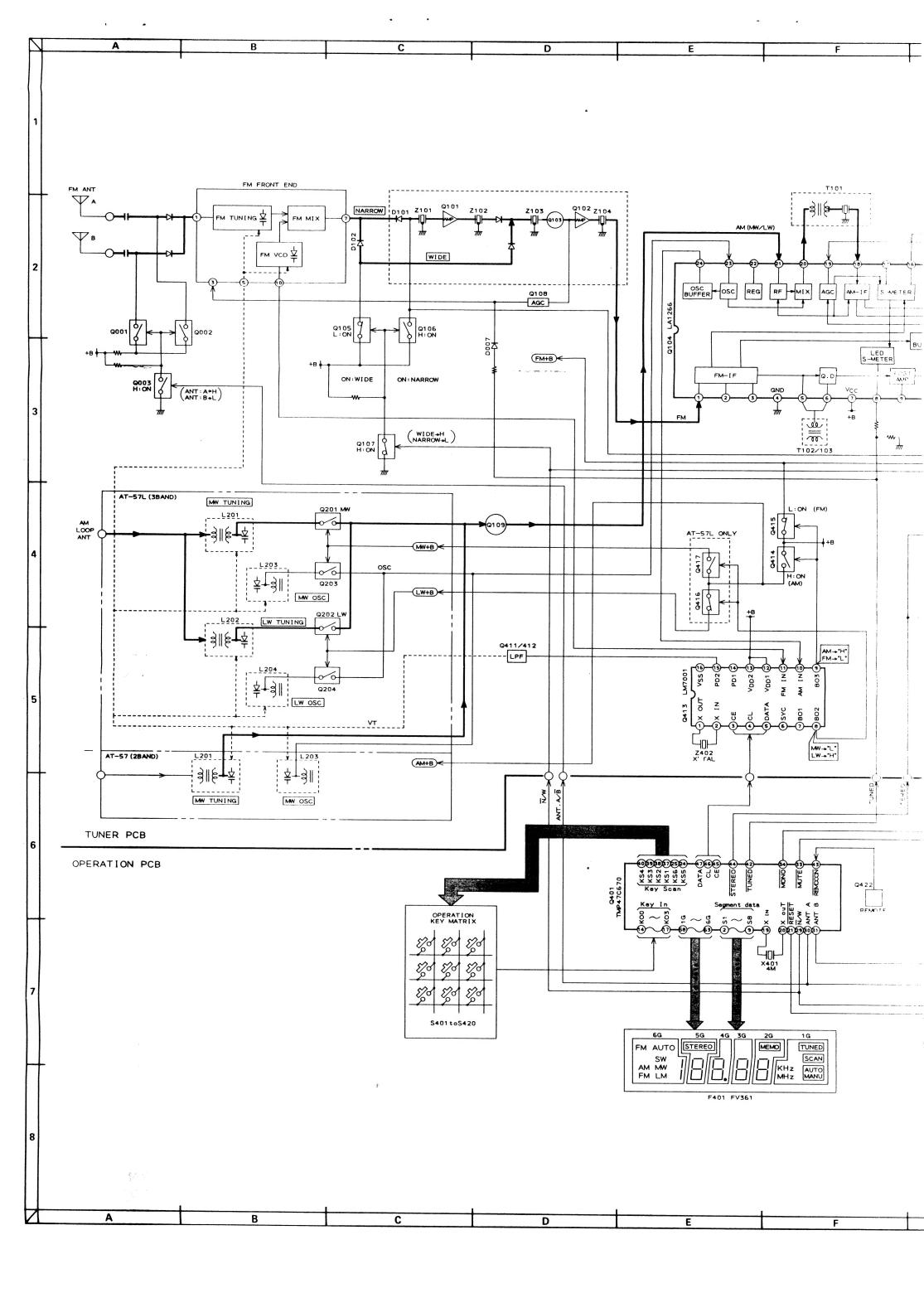
1.	FRONT END SCHEMATIC DIAGRAM	2
2.	BLOCK DIAGRAM	3
3.	SCHEMATIC DIAGRAM	4
4.	TUNER P.C BOARD	5
5	OPERATION PC BOARD	6

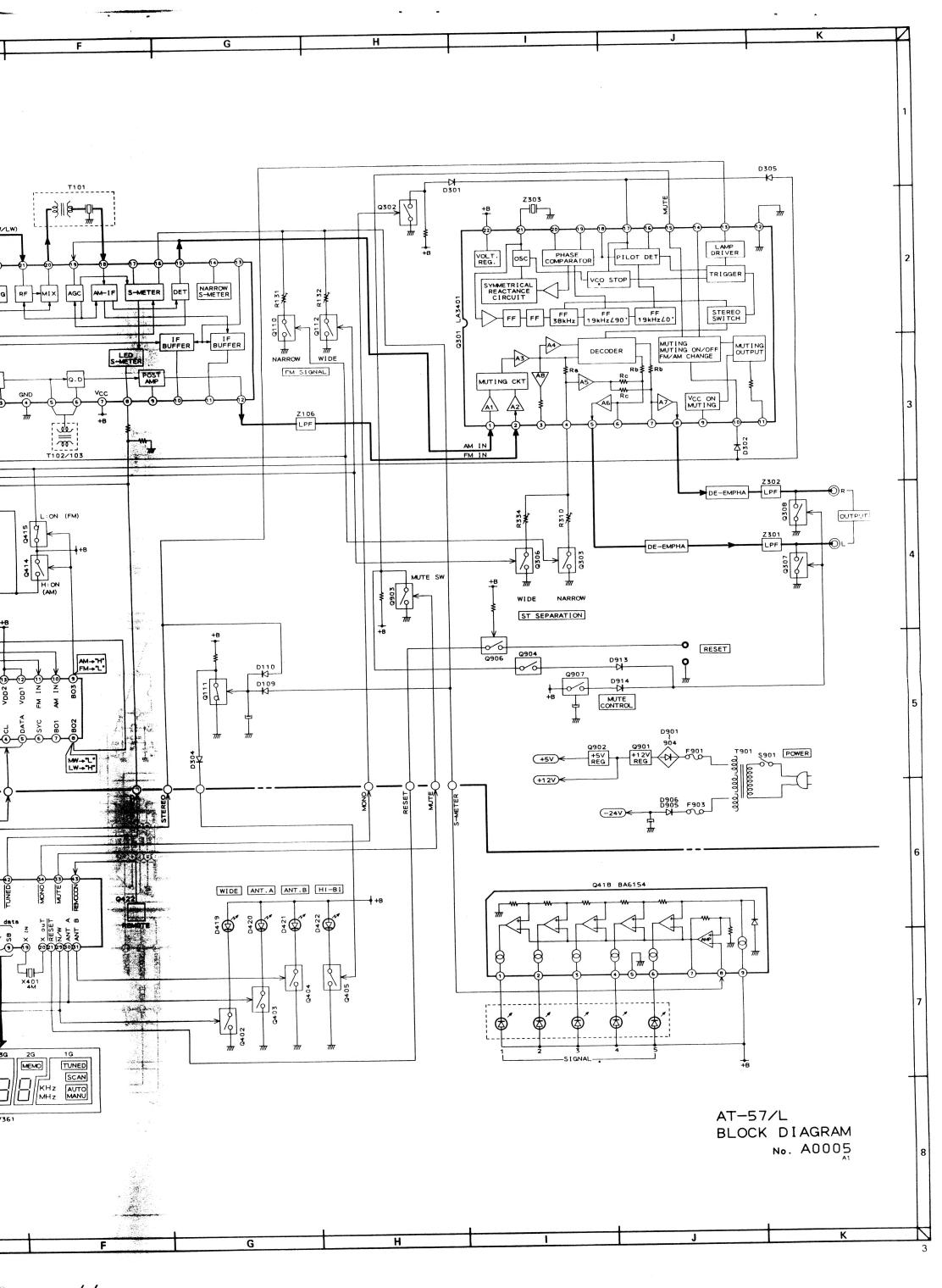
Use the following schematic diagrams and PC boards together with the provided service manual.



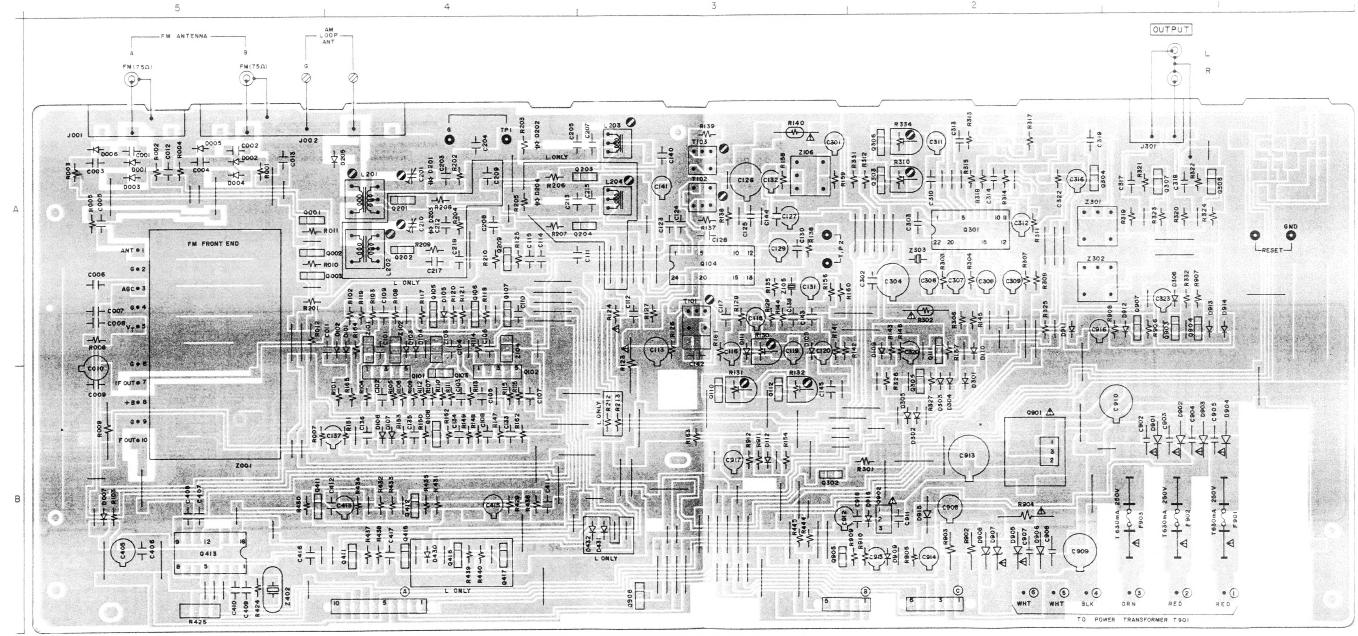




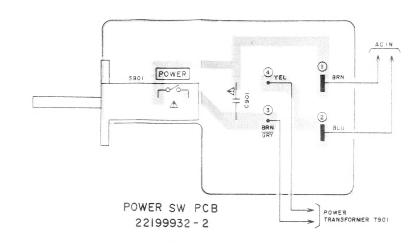




PRINCIPAL PA	ARTS LOCATION
ics	
Q101	B4 Q108B4 Q411B5
Q102	
Q104	A3 Q111 A3 Q414 B4
Q301	A2 Q112 B3 Q415 B4
Q413	B5 Q201 A4 Q416
Q901	B2 Q202 A4 Q417 B4
Q902	B2 Q203 A3 Q903 A1
	Q204 A3 Q904 A1
TRANSISTORS	Q209 A4 Q905 B3
Q001	A5 Q302 B3 Q906 B3
Q002	A5 Q303 A2 Q907 A1
Q003	A5 Q304 A2
Q103	
Q105	
Q106	
Q107	A4 Q308 A1
5	4
FM ANTENNA	AM LOOP
	ANT
А	
FM(75Ω) FM(75Ω) G	
Ψ	



TUNER PCB 22199932



WARNING: MINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER' RECOMMENDED PARTS

AVERTISSEMENT: MIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ

RTISSEMENT: ÁIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER OUE DES PIÉCES RECOMMANDÉES PAR LE FABRICANT.

